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**Notice of Allowability**

Application No.

10/000,158

Examiner

Hashem Farrokh

Applicant(s)

KHANNA ET AL.

Art Unit

2187

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/22/04.
2. ☒ The allowed claim(s) is/are 1-60.
3. ☒ The drawings filed on 31 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 6/22/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**NASSER MOAZZAM**  
**PRIMARY EXAMINER**

*09,13,04*

**PART I**                      **THE EXAMINER'S EVALUATION OF THE APPLICATION**

**SECTION A**                      **RELEVANT ART CITED BY THE EXAMINER**

1. U. S. Patent No. 6,289,414 B1 to Feldmeier et al. describes Partially Ordered CAMS used in Ternary Hierarchical A address Searching/Sorting, describes a method of fast searches while reducing the search table size.
2. U. S. Patent No. 6,424,659 B2 to Viswanadham et al. describes technique for network router implemented in ASIC, RISC processor, and software.
3. U. S. Patent No. 6,243,281 B1 to Pereira describing a method of accessing of CAM cells.
4. U. S. Patent Publication No. 20020015348 to Kanata et al. describes a system and method power reduction in the CAM during the compare operation.
5. U. S. Patent Publication No. 2003/0039135 A1 to Srinivasan et al. describes a method of filtering the input string to generate comparand string for a CAM device.

**SECTION B**                      **DISTINGUISHING FEATURES RECITED IN THE CLAIMS**

The following is an **Examiner's Statement of Reasons for Allowance** See  
**MPEP 1302.14**

6. The primary reasons for allowance of independent claims 1, 14, 29, 39, 43, 49 and 56 in the instant application are the combination with the inclusion in these claims the limitation of wherein **a first bit group has a first position in the input data relative to the other bit groups; translating, in response to first translation**

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**information, the first bit group from the first position to a different position in a comparand.**

The prior art of record including the disclosures of Feldmeier et al. (6,289,414 B1), Viswanadham et al. (6,424,659 B2), Pereira (6,243,281 B1), Kanata et al. (20020015348), and Srinivasan et al. neither anticipates nor renders obvious the above recited combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on Statement of Reasons for Allowance"

**PART II                      THE ATTENTION OF FUTURE CORRESPONDENT**

Any inquiry concerning this communication should be directed to Hashem Farrokh whose telephone number is (703) 305-8886. The examiner can normally be reached Monday-Friday from 8:00 AM to 5:00 PM.

**:IMPORTANT NOTE:**

If attempt to reach the above noted Examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Donald A Sparks, can be reached on (703) 308-1756.

Any inquiry of a general nature or relating status of this application or proceeding should be directed to receptionist whose telephone number is (703) 305-3900.

HF

HF

2004-09-03

NASSER MOAZZAMI  
PRIMARY EXAMINER



09/13/04